

6,887,703.

cgc



PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

5

Application Number

09/788,117

Filing Date

February 16, 2001

First Named Inventor

Thomas M. BAER

Art Unit

--

Examiner Name

--

Attorney Docket Number

ARC012001300

Certificate

FEB 28 2006

of Correction

## ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	-Certificate of Correction--1 page
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	-Issue Fee transmittal--1 page
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	-Filing Receipt--1 page
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	-Front page of patent--1 page
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="text"/> Remarks	

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Lukas IP Group		
Signature			
Printed name	Rimas Lukas		
Date	February 16, 2006	Reg. No.	46,451

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Rimas Lukas	Date	February 16, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 6,887,703  
APPLICATION NO.: 09/788,117  
ISSUE DATE : May 3, 2005  
INVENTOR(S) : Thomas M. BAER et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

(1) On the front page of the patent, the inventor's name "Barbara J. Wessen-Baer" is misspelled. The inventor's name should read --Barbara J. Weesen-Baer--. This mistake is attributable to the Office as is evident from the Updated Filing Receipt (mailing date of 06/22/2001, a copy is enclosed) which shows the inventor's correct spelling.

(2) On the front page of the patent, the assignee's name "Arturus Bioscience, Inc." is misspelled. The assignee name should read --Arcturus Bioscience, Inc.--. This mistake is attributable to the Office as is evident from the Issue Fee Transmittal (enclosed) which shows the assignee's correct spelling.

Because of the nature of these mistakes is of grave consequence as the assignee and inventor's names are frequent search terms in electronic databases, a certificate of correction is deemed inappropriate in form and therefore, applicants respectfully request that a corrected patent be issued in lieu thereof as a more appropriate form for certificate of correction without expense to the patentee according to 37 CFR 1.322(b).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Lukas IP Group  
2707 18th Street  
San Francisco, CA 94110

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*



US006887703B2

**(12) United States Patent**  
**Baer et al.****(10) Patent No.: US 6,887,703 B2**  
**(45) Date of Patent: May 3, 2005****(54) TRANSFER FILM FOR LASER  
MICROCAPTURE****(75) Inventors:** Thomas M. Baer, Mountain View, CA  
(US); Robert H. Reamey, Palo Alto,  
CA (US); **David F. Head**, Saratoga, CA  
(US); **Barbara J. Wessen-Baer**,  
Mountain View, CA (US); Ali Firouzi,  
Redwood City, CA (US); David Ching,  
Mountain View, CA (US)**(73) Assignee:** **Arturus Bioscience, Inc.**, Mountain  
View, CA (US)**(\*) Notice:** Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 565 days.**(21) Appl. No.: 09/788,117****(22) Filed: Feb. 16, 2001****(65) Prior Publication Data**

US 2001/0028934 A1 Oct. 11, 2001

**Related U.S. Application Data****(60)** Provisional application No. 60/182,832, filed on Feb. 16,  
2000.**(51) Int. Cl.<sup>7</sup> ..... C12N 5/00****(52) U.S. Cl. .... 435/325; 356/36; 427/2.11;  
428/40.1****(58) Field of Search ..... 435/325, 7.23;  
428/40.1; 427/2.11; 356/36****(56) References Cited****U.S. PATENT DOCUMENTS**

4,149,803 A	4/1979	Litz
4,245,003 A	1/1981	Oransky et al.
4,333,983 A	6/1982	Allen
4,559,266 A	12/1985	Misasa et al.
4,624,915 A	11/1986	Schindler et al.
4,629,687 A	12/1986	Schindler et al.
4,673,261 A	6/1987	Hunt et al.
4,731,530 A	3/1988	Mikan
4,857,399 A *	8/1989	Vicik
4,901,738 A	2/1990	Brink et al.
4,920,053 A	4/1990	Inoue et al.
4,923,294 A	5/1990	Courtenay
4,987,006 A	1/1991	Williams et al.
5,057,689 A	10/1991	Nomura et al.
5,077,620 A	12/1991	Mauro
5,096,775 A	3/1992	Sato et al.
5,126,877 A	6/1992	Biber
5,139,831 A *	8/1992	Mueller
5,202,230 A	4/1993	Kamentsky
5,280,384 A	1/1994	Shibasaki
5,288,996 A	2/1994	Betzig et al.
5,296,291 A	3/1994	Mueller
5,346,765 A	9/1994	Maeda et al.
5,391,329 A	2/1995	Dougherty et al.
5,468,967 A	11/1995	Chan et al.
5,479,252 A	12/1995	Worster et al.
5,492,861 A	2/1996	Opower
5,529,841 A	6/1996	Neihof
5,541,064 A	7/1996	Bacus et al.
5,574,077 A	11/1996	Dougherty et al.

5,576,264 A	11/1996	Ueno et al.
5,580,612 A	12/1996	Hickel et al.
5,585,246 A	12/1996	Dubrow et al.
5,665,582 A	9/1997	Kausch et al.
5,677,197 A	10/1997	Gordon et al.
5,723,290 A	3/1998	Eberwine et al.
5,759,781 A	6/1998	Ward et al.
5,763,191 A	6/1998	Knoll et al.
5,817,462 A	10/1998	Garini et al.
5,843,644 A	12/1998	Liotta et al.
5,843,657 A	12/1998	Liotta et al.
5,859,699 A	1/1999	Baer et al.
5,869,345 A	2/1999	Chandler
5,985,085 A	11/1999	Baer et al.
5,998,129 A	12/1999	Schütze et al.
6,010,888 A	1/2000	Liotta et al.
6,100,051 A	8/2000	Goldstein et al.
6,157,446 A	12/2000	Baer et al.
6,184,973 B1	2/2001	Baer et al.
6,204,030 B1	3/2001	Liotta et al.
6,215,550 B1	4/2001	Baer et al.
6,251,467 B1	6/2001	Liotta et al.
6,251,516 B1	6/2001	Bonner et al.
6,495,195 B2 *	12/2002	Baer et al.
2001/0031481 A1	10/2001	Liotta et al.

**FOREIGN PATENT DOCUMENTS**

DE	196 03 996 A1	8/1997
JP	09 095657	4/1997
WO	WO 91/07683 A1	5/1991
WO	WO 95/23960 A1	9/1995
WO	WO 97/13838 A1	4/1997
WO	WO 98/35215 A1	8/1998
WO	WO 98/35216 A1	8/1998
WO	WO 98/36261 A1	8/1998
WO	WO 99/17094 A2	4/1999
WO	WO 00/06992 A1	2/2000
WO	WO 00/34757 A1	6/2000
WO	WO 00/68662 A1	11/2000

**OTHER PUBLICATIONS**

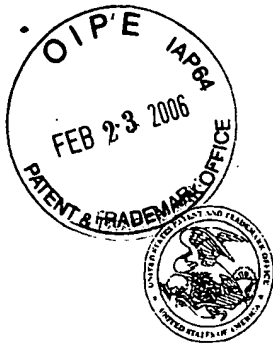
English Abstract for German Patent DE 196 03 996 A1  
retrieved in Dialog database in file 12 on Dec. 12, 2001.  
U.S. Appl. No. 08/800,882, filed Feb. 14, 1997, Baer et al.  
U.S. Appl. No. 08/984,979, filed Dec. 4, 1997, Baer et al.  
U.S. Appl. No. 09/018,452, filed Feb. 4, 1998, Baer et al.  
U.S. Appl. No. 09/058,711, filed Apr. 10, 1998, Baer et al.  
U.S. Appl. No. 09/121,635, filed Jul. 23, 1998, Baer et al.  
U.S. Appl. No. 09/121,677, filed Jul. 23, 1998, Baer et al.  
U.S. Appl. No. 09/121,691, filed Jul. 23, 1998, Baer et al.  
U.S. Appl. No. 09/208,604, filed Dec. 8, 1998, Baer et al.  
U.S. Appl. No. 09/357,423, filed Jul. 20, 1999, Baer.

(Continued)

**Primary Examiner**—Leon B. Lankford, Jr.**(74) Attorney, Agent, or Firm**—Lukas IP Group; Rimas T.  
Lukas**(57) ABSTRACT**

The present invention generally provides an improved transfer film having multiple layers for laser micro-capture of a sample. The transfer film for laser micro-capture includes distinct layers for expansion and adhesion in order to optimize the performance of the transfer film. A transfer film including a spring-back layer is also disclosed.

**17 Claims, 9 Drawing Sheets**



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D. C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/788,117	02/16/2001	1772	1216	485772001300	9	104	4

RECEIVED

JUN 25 2001

Rimas T. Lukas  
Morrison & Foerster LLP  
755 Page Mill Rd  
Palo Alto, CA 94304-1018

Morrison & Foerster LLP  
Palo Alto

CONFIRMATION NO. 2852

UPDATED FILING RECEIPT



\*OC00000006217294\*

Date Mailed: 06/22/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

**Applicant(s)**

Thomas M. Baer, Mountain View, CA;  
Robert H. Reamey, Palo Alto, CA;  
David F. Head, Los Gatos, CA;  
Barbara J. Weesen-Baer, Mountain View, CA;  
Ali Firouzi, Redwood City, CA;  
David Ching, Mountain View, CA;

**Domestic Priority data as claimed by applicant**

THIS APPLN CLAIMS BENEFIT OF 60/182,832 02/16/2000

**Foreign Applications**

If Required, Foreign Filing License Granted 03/20/2001

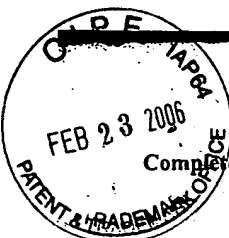
Projected Publication Date: 10/04/2001

Non-Publication Request: No

Early Publication Request: No

\*\* SMALL ENTITY \*\*

DOCKETED



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

01/13/2004

Rimas Lukas  
465 Kelly Ave., #E  
Half Moon Bay, CA 94019

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

RIMAS T. LUKAS	(Depositor's name)
<i>[Signature]</i>	(Signature)
4/13/04	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/788,117	02/16/2001	Thomas M. Baer	485772001300	2852

TITLE OF INVENTION: TRANSFER FILM FOR LASER MICROCAPTURE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	04/13/2004
EXAMINER		ART UNIT	CLASS-SUBCLASS		
LANKFORD JR, LEON B		1651	435-040500		

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☒ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47, Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. LUKAS IP GROUP  
2. RIMAS T. LUKAS  
3.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY AND STATE OR COUNTRY)

ARCTURUS BIOSCIENCE, INC.

MOUNTAIN VIEW, CA

Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual ☒ corporation or other private group entity ☐ government

4a. The following fee(s) are enclosed:

☒ Issue Fee

☒ Publication Fee

☒ Advance Order - # of Copies 5

4b. Payment of Fee(s):

☒ A check in the amount of the fee(s) is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).

Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date)

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMIT THIS FORM WITH FEE(S)